US Army Corps of Engineers

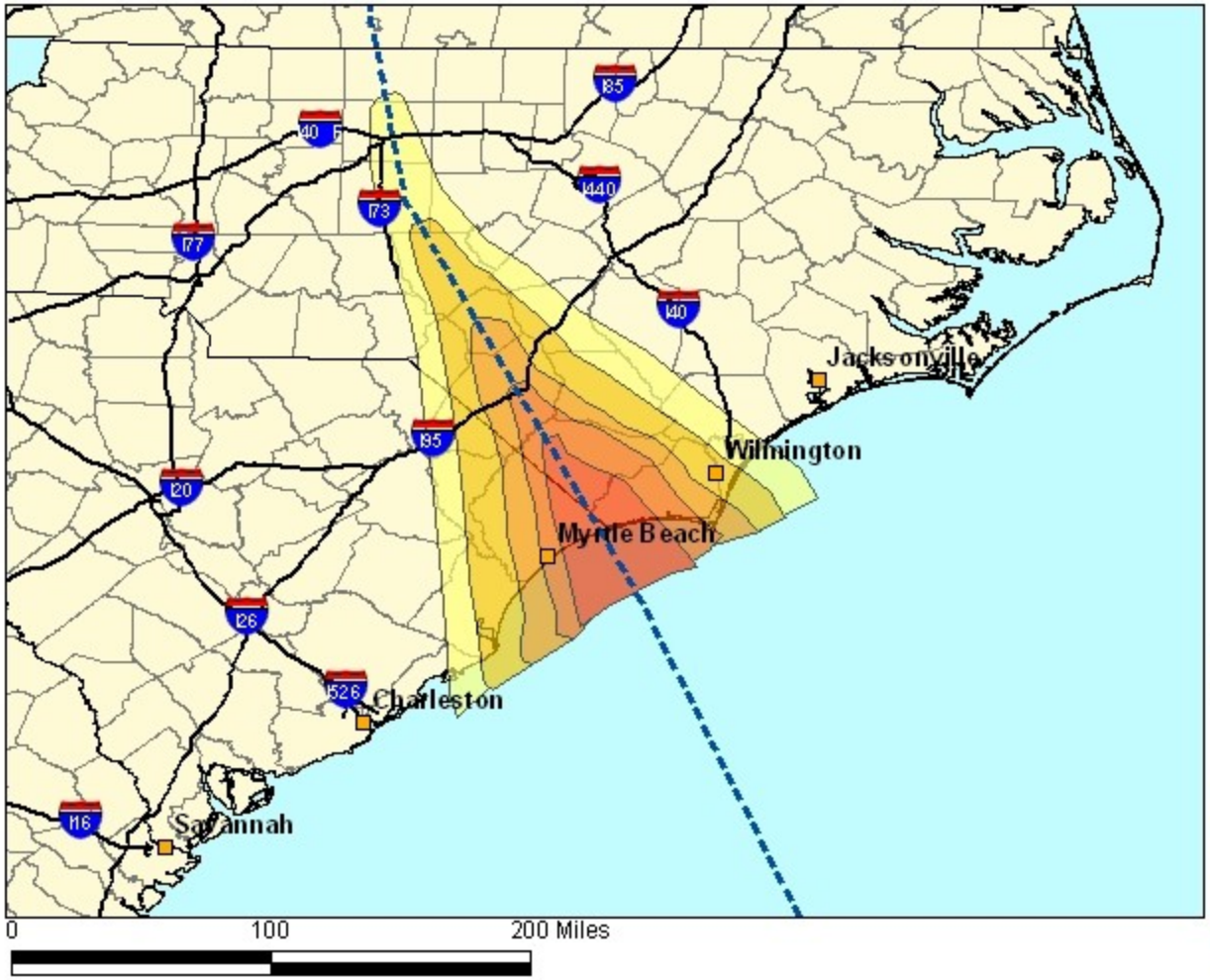
Hurricane Exercise Projected Damage Areas

Landfall Expected In About 12 Hours

For Official Use Only!

Post Landfall Projected Damage Areas

This model is based on a Category 4 storm making landfall Little River, SC.



Forecast Track
Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 4 storm making landfall Little River, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Projected Damage Areas

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

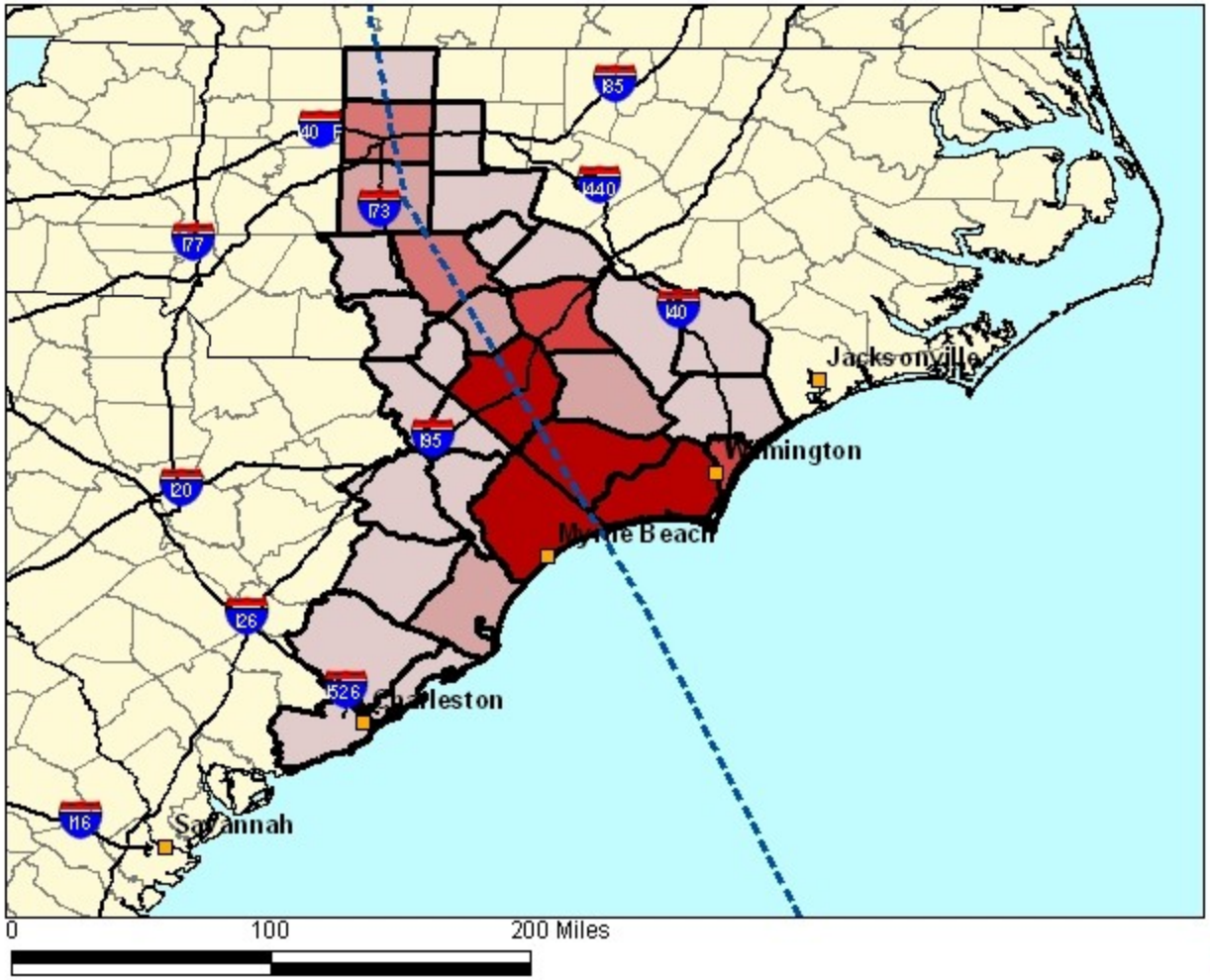
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Expected In About **12** Hours

For Official Use Only!



Post Landfall Debris Model Results

North Carolina - 9,065,000 Yards
South Carolina - 6,238,000 Yards

Model results per county on following page

This model is based on a Category 4 storm making landfall Little River, SC.

Forecast Track
Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 4 storm making landfall Little River, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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Hurricane Exercise Debris Model	
Generated By: Siemsen, LRL 1600 EDT 05/11/2007	
Sources: HURREVAC LRL-DEBRIS	Page 2 of 13

US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Expected In About **12** Hours

For Official Use Only!

State	Yards per State	County	Yards per County
North Carolina		Alamance	< 1,000
		Bladen	215,000
		Brunswick	3,001,000
		Chatham	23,000
		Columbus	1,987,000
		Cumberland	611,000
		Duplin	< 1,000
		Guilford	427,000
		Harnett	27,000
		Hoke	206,000
		Lee	23,000
		Montgomery	7,000
		Moore	281,000
		New Hanover	567,000
		Pender	37,000
		Randolph	132,000
		Richmond	9,000
		Robeson	1,429,000
		Rockingham	3,000
		Sampson	15,000
		Scotland	66,000
North Carolina	9,066,000		
South Carolina		Berkeley	< 1,000
		Charleston	2,000
		Dillon	75,000
		Florence	9,000
		Georgetown	186,000
		Horry	5,851,000
		Marion	97,000
		Marlboro	7,000
		Williamsburg	11,000

State	Yards per State	County	Yards per County
South Carolina	6,238,000		
(continued)			

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Debris Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

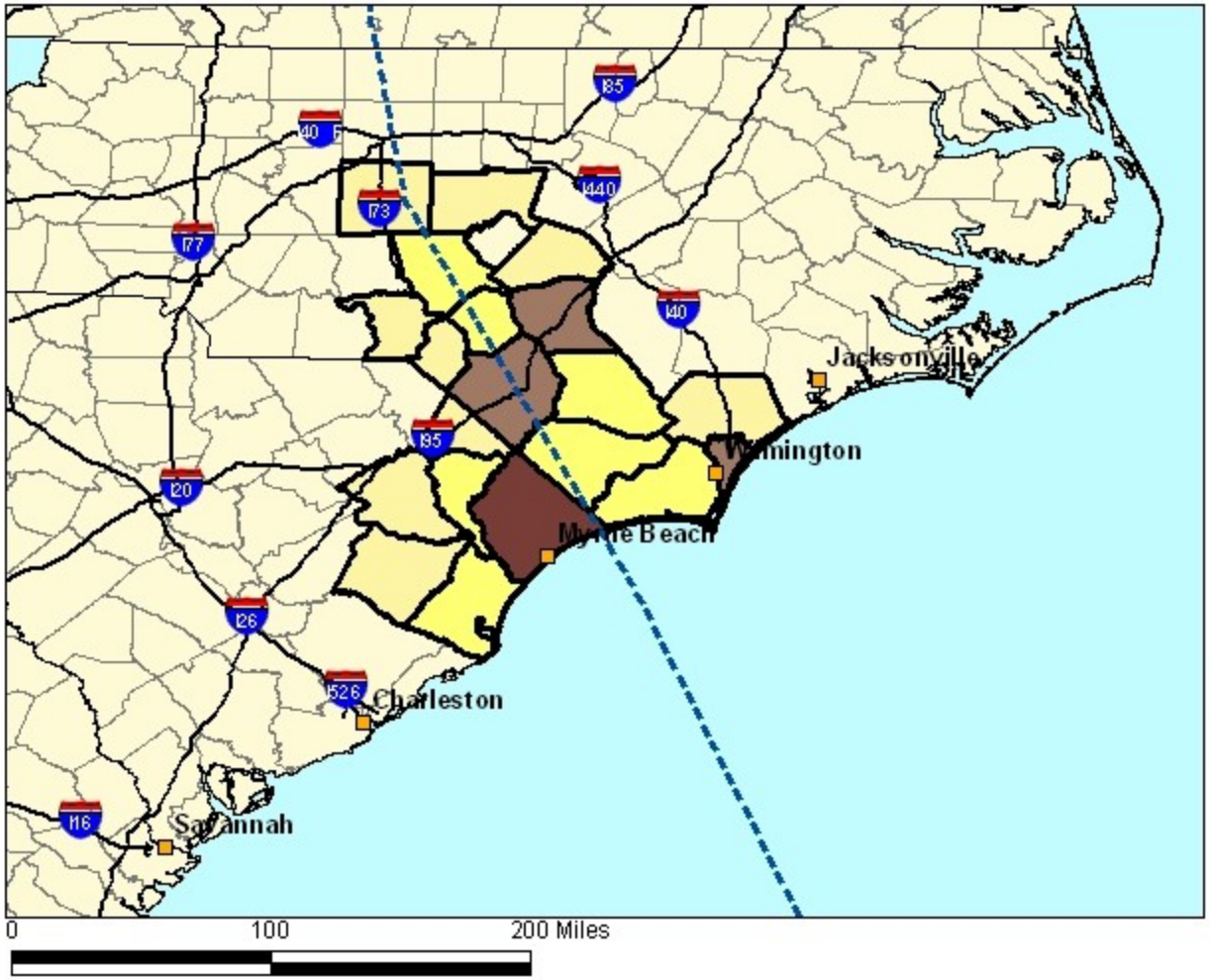
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Population Model

Landfall Expected In About 12 Hours

For Official Use Only!



Post Landfall Population Model Results

North Carolina - 692,000
South Carolina - 305,000

Model results per county on following page

This model is based on a Category 4 storm making landfall Little River, SC.

Forecast Track
Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 4 storm making landfall Little River, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Population Model

Landfall Expected In About 12 Hours

For Official Use Only!

State	Population per State	County	Population per County
North Carolina		Bladen	30,000
		Brunswick	90,000
		Chatham	< 1,000
		Columbus	55,000
		Cumberland	147,000
		Harnett	< 1,000
		Hoke	42,000
		Moore	67,000
		New Hanover	113,000
		Pender	2,000
		Randolph	2,000
		Richmond	< 1,000
		Robeson	128,000
		Scotland	16,000
North Carolina	692,000		
South Carolina		Dillon	20,000
		Florence	< 1,000
		Georgetown	32,000
		Horry	227,000
		Marion	26,000
		Williamsburg	< 1,000
South Carolina	305,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

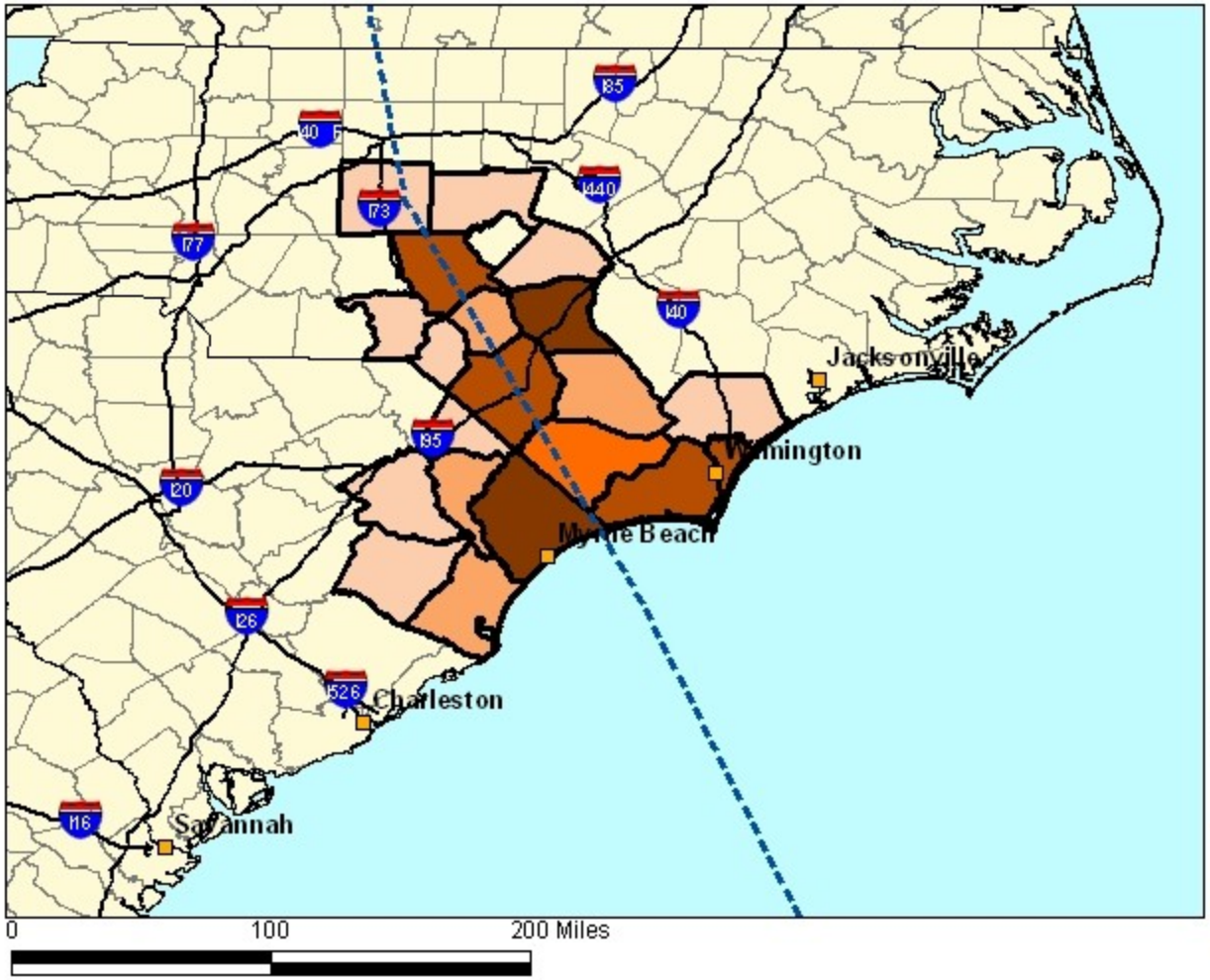
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Households Model

Landfall Expected In About **12** Hours

For Official Use Only!



Post Landfall Households Model Results

North Carolina - 266,000
South Carolina - 125,000

Model results per county on following page

This model is based on a Category 4 storm making landfall Little River, SC.

Forecast Track
Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 4 storm making landfall Little River, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model	
Generated By: Siemsen, LRL 1600 EDT 05/11/2007	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 13

US Army Corps of Engineers

Hurricane Exercise Households Model

Landfall Expected In About 12 Hours

For Official Use Only!

State	Households per State	County	Households per County
North Carolina		Bladen	12,000
		Brunswick	38,000
		Chatham	< 1,000
		Columbus	22,000
		Cumberland	51,000
		Harnett	< 1,000
		Hoke	14,000
		Moore	28,000
		New Hanover	49,000
		Pender	< 1,000
		Randolph	< 1,000
		Richmond	< 1,000
		Robeson	46,000
		Scotland	6,000
North Carolina	266,000		
South Carolina		Dillon	7,000
		Florence	< 1,000
		Georgetown	13,000
		Horry	95,000
		Marion	10,000
		Williamsburg	< 1,000
South Carolina	125,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

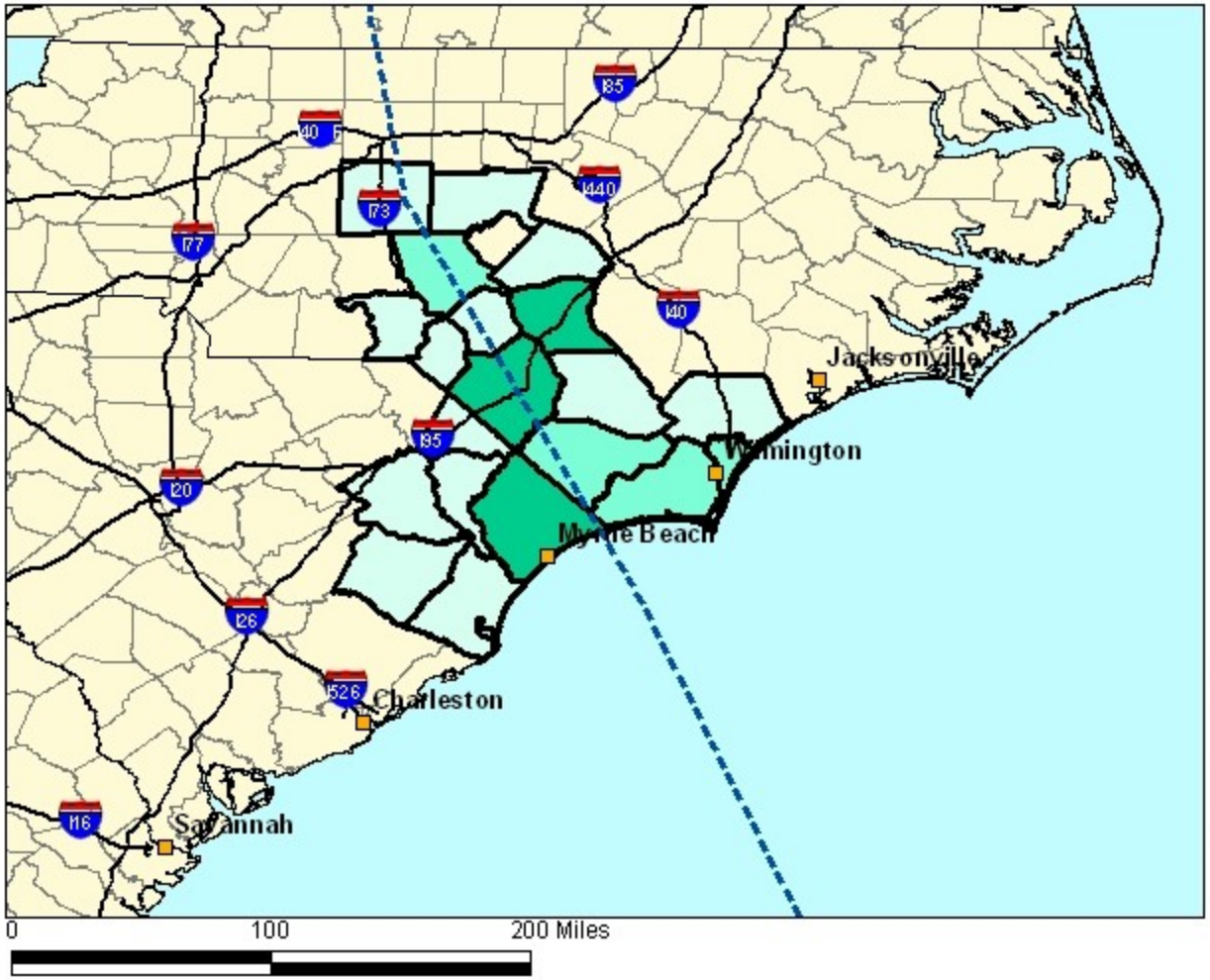
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Expected In About **12** Hours

For Official Use Only!



Post Landfall Ice/Water Model Results

Day One / Day Two / Day Three
NC - 17/33/66 Truckloads
SC – 8/15/29 Truckloads

Model results per county on following page

This model is based on a Category 4 storm making landfall Little River, SC.

Forecast Track
Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 4 storm making landfall Little River, SC. These projections are based on information from the NHC ***(1530 EDT 05/11/2007)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input. The graphic represents single day needs with full distribution system in place and operating.
Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model	
Generated By: Siemsen, LRL 1600 EDT 05/11/2007	
Sources: HURREVAC LRL-DEBRIS	Page 8 of 13

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Expected In About 12 Hours

For Official Use Only!

State	Truckloads per State	County	Truckloads per County
North Carolina		Bladen	3
		Brunswick	8
		Chatham	1
		Columbus	5
		Cumberland	12
		Harnett	1
		Hoke	4
		Moore	6
		New Hanover	10
		Pender	1
		Randolph	1
		Richmond	1
		Robeson	11
		Scotland	2
North Carolina	66		
South Carolina		Dillon	2
		Florence	1
		Georgetown	3
		Horry	19
		Marion	3
		Williamsburg	1
South Carolina	29		

The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system. The assumption in this scenario is that 40% of the resident population affected by the hurricane will have power outage in this area and cause a need for ice and water.

Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Exercise Temporary Housing Model

US Army Corps of Engineers

Landfall Expected In About 12 Hours

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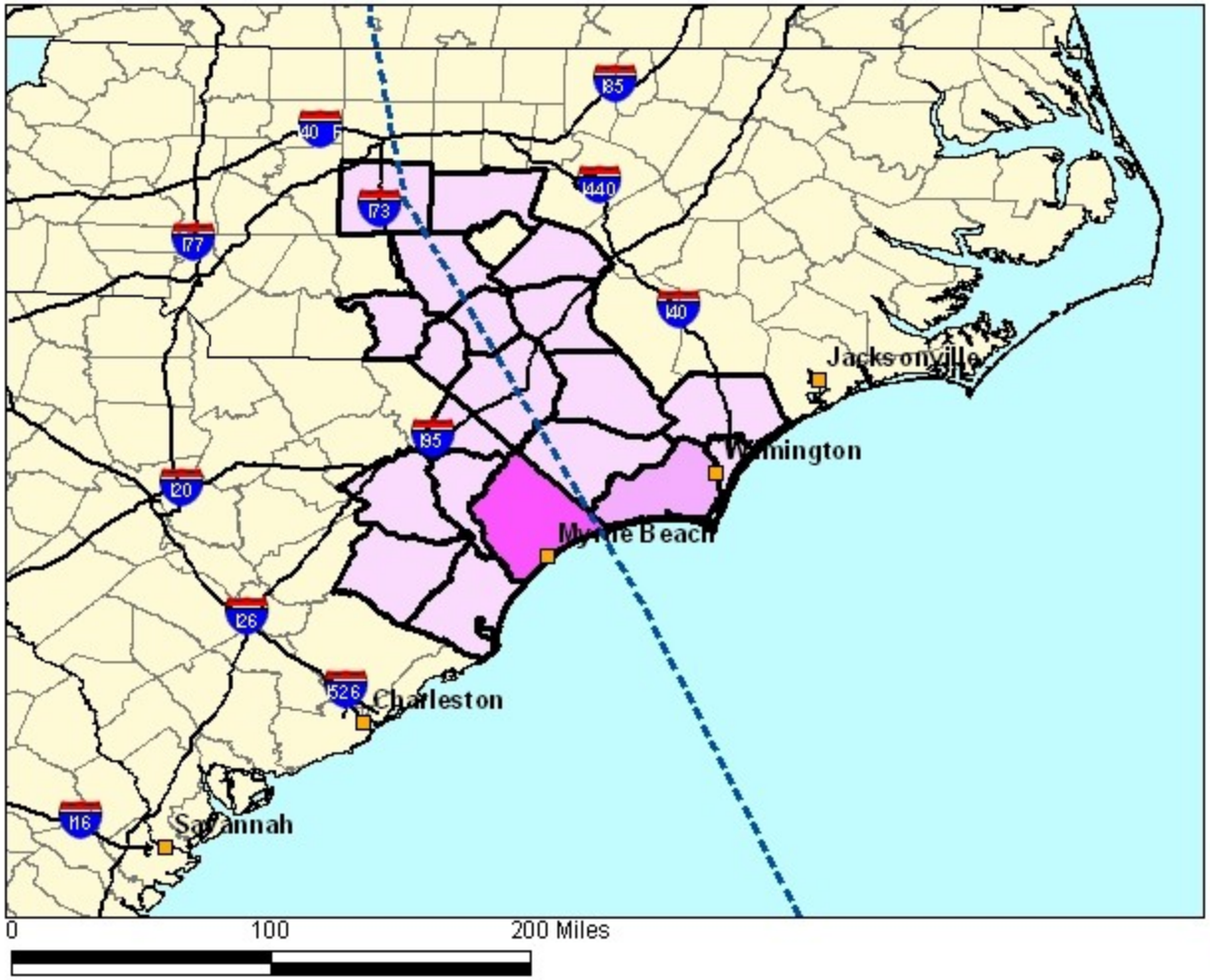


Post Landfall Temporary Housing Model Results

North Carolina - 7,100
South Carolina - 4,800

Model results per county on following page

This model is based on a Category 4 storm making landfall Little River, SC.

Forecast Track
Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall Little River, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast. Temporary housing is based on 1% in CAT 1, 3% in CAT 2, 5% in CAT 3 and 9% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model	
Generated By: Siemsen, LRL 1600 EDT 05/11/2007	
Sources: HURREVAC LRL-DEBRIS	Page 10 of 13

US Army Corps of Engineers

Hurricane Exercise Temporary Housing Model

Landfall Expected In About 12 Hours

For Official Use Only!

State	per State	County	per County
North Carolina		Bladen	300
		Brunswick	2,100
		Chatham	< 100
		Columbus	1,400
		Cumberland	600
		Harnett	< 100
		Hoke	300
		Moore	300
		New Hanover	600
		Pender	< 100
		Randolph	< 100
		Richmond	< 100
		Robeson	1,500
		Scotland	< 100
North Carolina	7,100		
South Carolina		Dillon	< 100
		Florence	< 100
		Georgetown	200
		Horry	4,400
		Marion	200
		Williamsburg	< 100
South Carolina	4,800		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary housing is based on 1% in CAT 1, 3% in CAT 2, 5% in CAT 3 and 9% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

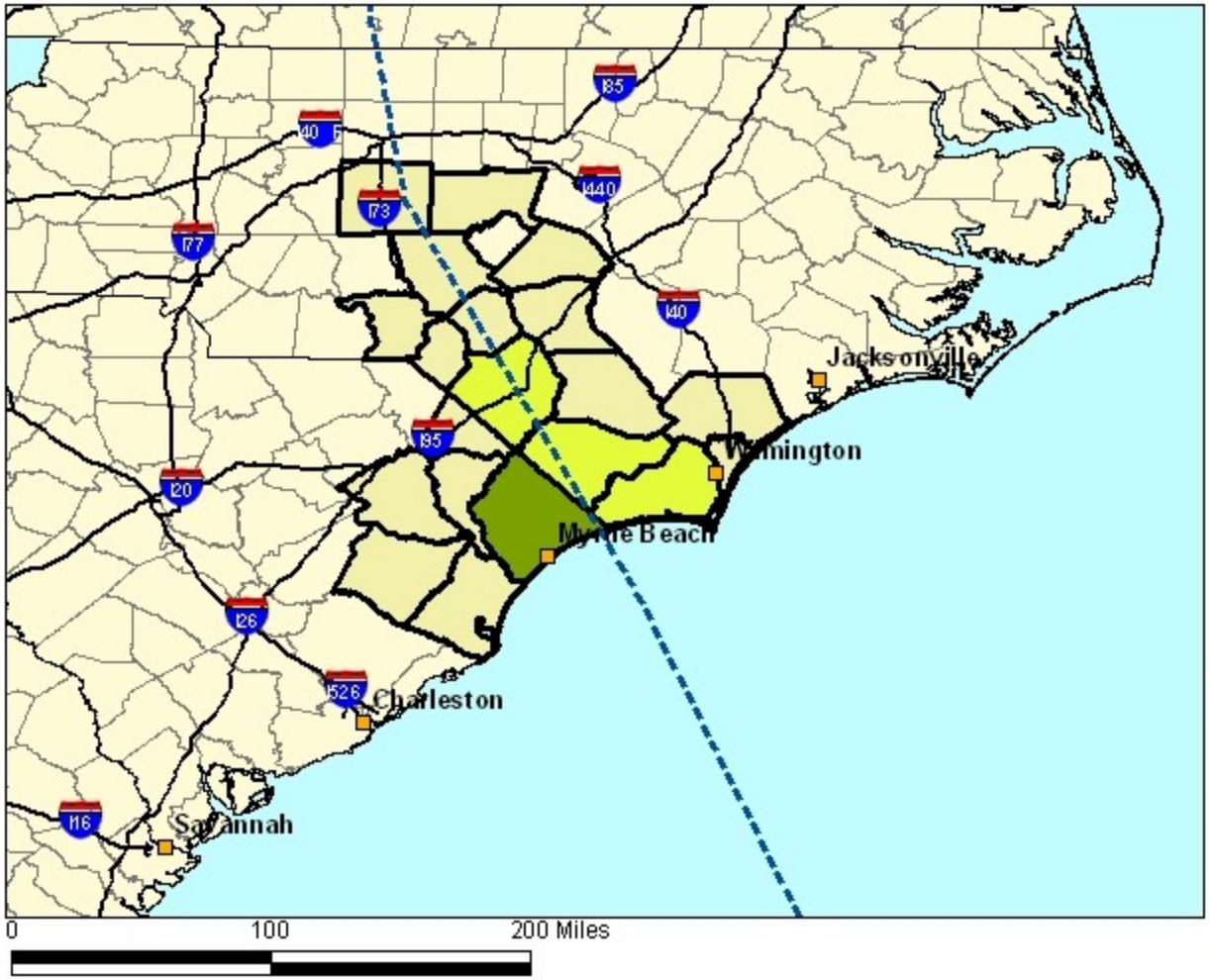
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Temporary Roofing Model

Landfall Expected In About **12** Hours

For Official Use Only!



Post Landfall Temporary Roofing Model Results

North Carolina - 12,100
South Carolina - 8,100

Model results per county on following page

This model is based on a Category 4 storm making landfall Little River, SC.

Forecast Track
Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall Little River, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast. Temporary roofing is based on 2% in CAT 1, 5% in CAT 2, 9% in CAT 3 and 14% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Roofing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 12 of 13

US Army Corps of Engineers

Hurricane Exercise Temporary Roofing Model

Landfall Expected In About 12 Hours

For Official Use Only!

State	House Units per State	County	House Units per County
North Carolina		Bladen	400
		Brunswick	3,400
		Chatham	< 100
		Columbus	2,200
		Cumberland	1,100
		Harnett	< 100
		Hoke	500
		Moore	600
		New Hanover	1,100
		Pender	< 100
		Randolph	< 100
		Richmond	< 100
		Robeson	2,600
		Scotland	200
North Carolina	12,100		
South Carolina		Dillon	200
		Florence	< 100
		Georgetown	300
		Horry	7,300
		Marion	300
		Williamsburg	< 100
South Carolina	8,100		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary roofing is based on 2% in CAT 1, 5% in CAT 2, 9% in CAT 3 and 14% in CAT 4.

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Hurricane Exercise Roofing Model

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